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Technical and Test Institute for Construction Prague, SOE

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Certification schemes TZUS-1a (based on the scheme 1A by ČSN EN ISO/IEC 17067:2014,
based on testing)

Branch 0800 – FIRE SAFETY

REACTION TO FIRE

REPORT

in accordance with ČSN EN 13501-1:2019

080-025055

Product Name:

THRcoating ALPHA

carried out on the basis of test report No. Pr-22-1.136 and 010-046301

Order No: Z 080220099

Classification report No.: PKP – 22 - 116

Applicant: ALPHA Czech s.r.o.
Pražákova 1008/69
639 00 Brno – Štýřice

Producer: ALPHA Czech s.r.o.
Pražákova 1008/69
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1. Introduction

1.1. This Classification Report determines the classification of a product called **THRcoating ALPHA** in accordance with the procedures in ČSN EN 13501-1:2019.

1.2. Normative backgrounds (including changes):

- ČSN EN 13501-1: Fire classification of construction products and building structures - Part 1: Classification according to the results of reaction to fire tests (9/2019)
- ČSN EN ISO 11925-2: Testing of reaction to fire - Flammability of construction products exposed to direct flame - Part 2: Testing for a small flame source (7/2020)
- ČSN EN 13823+A1: Reaction to fire tests for building products – Building products excluding floorings exposed to the thermal attack by a single burning item (10/2022)
- ČSN EN 13238: Reaction to fire tests for building products - Conditioning procedures and general rules for selection of substrates (6/2010)
- ČSN P CEN/TS 15117: Guidance on direct and extended application (2/2006)

2. Description of the construction product

2.1. Generally

Product – THRcoating ALPHA is defined according to the relevant technical data.

2.2. Description

It is a reflective insulating coating intended for coating concrete, plaster, facades, concrete and ceramic coverings, PVC, IPA, plastic pipes, metal and non-metallic pipes, coverings.

Product composition: Acrylate dispersion with microspheres (hollow glass balls)

Binder: - 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1), 1,2-Benzisothiazol-3(2H)-one – approx 40 %

Thickness: approx 400 microns – 5 mm

Density in liquid state: 0,54 g/cm³

Microspheres: Silica glass - approx. 60%

The product is fully described in the test report in support of classification listed in clause 3.1

3. Protocols and results used for this classification

3.1. Protocols

No.	Name of the laboratory	Name of the customer	Protocol No. Date of issue	Test method and date Application rules area and date
[1]	PAVUS, a.s. Požární zkušebna Veselí nad Lužnicí AZL č. 1026	Technický a zkušební ústav stavební Praha, s.p. Prosecká 811/76a, 190 00 Praha 9	Pr-22-1.136 (2022-11-24)	EN 13823:2020
[2]	TZÚS Praha, s.p., pobočka 0100 - Praha AZL. č. 1018.3	ALPHA Czech s.r.o. Pražákova 1008/69 639 00 Brno – Štýřice	010-046301 (2022-11-30)	ČSN EN ISO 11925- 2:2020



3.2. Test results

	Test method	Parameter	Number of tests	Results	
				Continuous parameter – average	Compliance the parameters for class C-s1,d0
1	ČSN EN 13823+A1:2022	FIGRA _{0,2 MJ} [W/s]	3	184,18	≤ 250 W/s meets
		FIGRA _{0,4 MJ} [W/s]		180,69	not applied
		LFS < edge of specimen		< edge of specimen	meets
		THR _{600s} [MJ]		2,45	≤ 15 MJ meets
		SMOGR _A [m ² /s ²]		0,40	≤ 30 m ² /s ² meets
		TPS _{600s} [m ²]		12,69	≤ 50 m ² meets
		Flaming droplets / particles		No flaming droplets / particles	meets
2	EN ISO 11925-2:2010 exposure 30 s exposure of the area	Fs ≤ 150 mm during 60 s	6	yes	meets
		Ignition of filter paper		no	not applied
	EN ISO 11925-2:2010 exposure 30 s exposure of the edge	Fs ≤ 150 mm during 60 s	6	yes	meets
		Ignition of filter paper		no	not applied

4. Classification and area of direct application

4.1. Classification links

This classification was carried out in accordance with ČSN EN 13501-1:2019.

4.2. Classification

THRcoating ALPHA is classified according to its reaction to fire:

C

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets / particles is:

d0

Modification of the reaction to fire classification for construction products excluding floor coverings and thermal insulating pipe products:

Fire behavior		Smoke production			Burning particles	
C		s	1	,	d	0

Reaction to fire classification: C-s1,d0



4.3. Application area

This classification applies to the following parameters:

- The product described in paragraph 2,

The classification applies to the following end use applications:

- coating of concrete, plaster, facades, concrete and ceramic coverings, PVC, IPA, plastic pipes, metal and non-metallic pipes, coverings.

5. Restrictions

This classification report is only valid as a whole, and each page must be provided by the identification number of the classification report, page number of the total number of pages and the stamp of the contractor.

This classification report does not replace any type approval or product certification.


The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 of AVCP and CE marking under the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products.

The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence, the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.



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Prague, the 12.12.2022